

NOTE: INCLUDES DRAWING NOS: B-86-31, B-86-32 AND B-86-33

**POLE ASSEMBLY, STREET LIGHTING, ALUMINUM DIRECT BURIED
22FT., 26FT., & 31FT., MOUNTING HEIGHT**

NOTE: THIS SPECIFICATION AND ANY ACCOMPANYING SPECIFICATION OR BID CAN BE APPEALED.

YOUR APPEAL MUST BE SUBMITTED IN WRITING TO THE CITY PURCHASING DIRECTOR FOR ALL BIDS NO LATER THAN FIVE (5) WORKING DAYS PRIOR TO BID OPENING.

YOUR APPEAL MUST NOT ONLY IDENTIFY THE PROVISION, TERM OR CONDITION THAT IS CAUSING PROBLEMS, BUT ALSO YOUR PROPOSED ALTERNATE PROVISION, TERM OR CONDITION AND BE SUPPORTED BY TECHNICAL DATA, TEST RESULTS AND OTHER INFORMATION.

CONTACT THE APPROPRIATE PURCHASING AGENT OR THE PROCUREMENT SPECIALIST FOR APPEAL FILING INSTRUCTIONS.

APPEALS RECEIVED LATER THAN FIVE (5) WORKING DAYS PRIOR TO BID OPENING OR WITHOUT SUFFICIENT DETAILS WILL NOT BE CONSIDERED.

NOTICE!

**AN APPEAL FEE (CHECK OR MONEY ORDER) WHICH IS 1% OF
THE ESTIMATED DOLLAR AMOUNT OF THIS CONTRACT IS
REQUIRED WITH A BID SPECIFICATION APPEAL. THIS FEE IS A
PREREQUISITE FOR PURSUING THE APPEAL AND MUST ACCOMPANY
THE APPEAL. THE APPEAL FEE WILL BE RETURNED IF THE APPEAL IS UPHELD.**

CAUTION: A BID THAT DOES NOT FULLY COMPLY WITH ALL OF THE PROVISIONS, TERMS, AND CONDITIONS OF THIS OR ANY ACCOMPANYING SPECIFICATION AND BID, **MAY** BE DETERMINED AS A COUNTEROFFER AND **MAY** RESULT IN THE BID REJECTED FOR NONRESPONSIVENESS.

- I. GENERAL: It is the intent of this specification to describe the minimum requirements for direct burial aluminum street lighting assemblies to be purchased by the City of Milwaukee for the DPW-Infrastructure Services Division. All parts not specifically mentioned, which are necessary or which are regularly furnished in order to provide this pole, shall be furnished by the successful bidder at the bid price and shall conform in strength, quality of material and workmanship to that usually provided by the engineering practice indicated in this specification.
- II. WARRANTY: The seller and/or the manufacturer warrants that the goods sold here under will be of merchantable quality, will conform to applicable specifications, drawings, designs, samples, or descriptions, will be free from defects in materials and workmanship and will be fit for the particular purpose intended by the buyer.

- A. This warranty will remain in effect for a period of one year from date of installation not to exceed two years from date of delivery.
- B. Under this provision, the seller and/or manufacturer agrees to repair or replace within a reasonable time, any part, feature or product found to be defective during the warranty period at no cost to the City.
- C. Seller or manufacturer shall reimburse the city for removal and reinstallation costs of such repairs and replacement if three or more units of the same order develop or exhibit similar defects.
- D. Vendor should provide a complete warranty statement with their bid **or within three (3) working days of receiving a request.**

III. AWARD AUTHORITY:

- A The Procurement Services Section (DOA) will be the sole judge of the quality and suitability of the equipment, materials and/or services offered in its determination of the successful bidder for bids that do not exceed \$30,000.
- B The City Purchasing Director (DOA) will be the sole judge of the quality and suitability of the equipment, materials and/or services in its determination of the successful bidder for bids that exceed \$30,000.00.

IV. INSTALLATION: Upon request of the City after bid opening, bidders shall furnish a list of locations where street lighting assemblies of this type which they proposed to furnish have been installed and are in service. This list shall include the name of a person to contact and the telephone number.

IV. UNSUITABLE EQUIPMENT: Bids will not be considered for equipment or material that has previously failed to perform satisfactorily.

VI. TECHNICAL REQUIREMENTS: All features below shall be incorporated in the assembly and all items furnished and installed into a complete unit ready for use.

- A. TYPE: The aluminum street lighting assemblies to be furnished and delivered under this specification is to be round and tapered. The assembly shall be complete with shaft, pole cap, hardware, and base coating. All screws and fasteners shall be stainless steel or other approved materials.
- B. DESIGN:
 - 1. The aluminum street lighting assembly shall be in accordance with this specification and City of Milwaukee (DPW-Infrastructure Services Division) Drawings #B-86-31 dated 10-27-86, #B-86-32 dated 9-1987 and B-86-33 dated 4-28-87. These are intended to be coordinate and supplementary to each other and work indicated on one shall be executed as if indicated on both.
 - 2. Minor deviations on the rest of the assembly that will not affect the strength, appearance, vertical and horizontal stability of the pole will be permitted, but all such deviations shall be approved by the Purchasing Division (DOA), upon recommendations and/or approval of DPW-Infrastructure Services Division.

C. SHAFT AND POLE CAP:

1. The shaft shall be tapered from the top of the pole to the ground line. Horizontal and vertical stability shall be obtained by welding a 4" channel across the bottom of the shaft in line with the cable entrance holes. The channel is to extend 1" past the shaft wall. Dimensions from the pole top to the bracket mounting plate and the ground line to the top of the pole shall be rigidly adhered to.
2. Cable entrance holes shall be provided on both sides of the pole and shall be 2" diameter (minimum) shall be located 12" below ground line, and shall have grommets installed to prevent damage to the cable. They shall be 90 degrees from the mounting brackets.
3. The 26' & 31' mounting height poles shall be built as a double bracket unit and shall be supplied with one cover plate per pole as shown on the drawings.
4. The pole cap may be either cast, stamped, spun, etc., and have provisions to affix the cap firmly to the shaft.

D. BASE COATING:

1. The base coating shall be painted, sprayed or dipped. Both the inside and outside of the shaft shall be coated from the bottom of the shaft to a point 2" \pm above the ground line. The base coating shall be a Polyamide Epoxy Pittsburgh Aquapon or equal, applied unthinned and shall be applied before installing the grommets in the cable entrance holes.
2. The channel welded to the bottom of the shaft must be coated with the same material as above.

E. HAND HOLE AND GROUNDING: The hand hole shall be 4" x 6" nominal. A 1/4"-20 tapped hole and bolt shall be provided in the shaft opposite the hand hole for grounding purposes. Hand hole cover shall be secured to the pole using 1/4"-20 NC by 3/4" long 18-8 stainless steel button head Torx T27H tamper proof screws. The hand hole is to be 90 degrees from the bracket arms and in the same plane with the cable entrance holes.

F. LOADING AND STABILITY: The 22' and 26' pole assembly furnished under this specification when equipped with a 6' upsweep arm shall support a 250 watt, ballast in head, horizontal burning sodium vapor luminaire in a 100 MPH wind. The 31' pole furnished under this specification when equipped with a 6' upsweep arm shall support a 400 watt ballast in head, horizontal burning sodium vapor luminaire in a 100 MPH wind.

G. WELDING: All Welding shall be in accordance with the applicable A.S.M.E. Standards.

- H. PACKAGING: All shafts are to be protected against the elements and be able to be stored for a period of six months without discoloring or staining the finish of the pole. All parts are to be properly protected from damage in transit. All like type shafts are to be banded together for shipment. Small amounts of like type shafts which are banded together may be banded or crated with other type shafts to make a uniform package that can be unloaded with a fork lift truck. Shafts to be shipped in open side trucks for fork truck unloading. If the shafts are shipped in a manner which makes it impossible or impractical to use a fork lift truck for unloading the vendor will be billed the unloading cost incurred by the City.
 - I. DELIVERY: All deliveries are to be made to the DPW-Infrastructure Services Division, 1540 W. Canal Street, Milwaukee WI 53223. Notice of delivery must be given 24 hours in advance to the Division at (414) 286-3481. All deliveries shall be made between 7:00 A.M. and 2:30 P.M.; No deliveries accepted after 2:30 P.M.
- VII. ASTM DESIGNATIONS: Reference to ASTM designations mentioned herein shall mean the latest specification and/or test procedure in effect at time of bid is let.
- VIII. BRAND NAMES:
- A. REFERENCES: If articles have been identified in the bid by a "Brand Name" and model number, such reference is intended to be descriptive but not restrictive. It is for the sole purpose of indicating to the prospective bidders a description of articles that will be satisfactory. Other items of equal quality will be considered. Samples and/or demonstrations may be requested.
 - B. SUBSTITUTIONS: Unless the Bidder clearly indicates in his bid that he is offering a different article, his bid shall be considered as an offering of the brand name article.